CONTENTS

No. 1. FEBRUARY 1982

K. E. Van Holde and Karen I. Miller. Haemocyanins 1

Sow-Hsin Chen and Frederick Ross Hallett. Determination of motile behaviour of prokaryotic and eukaryotic cells by quasi-elastic light scattering 131

No. 2. MAY 1982

Jeffrey C. Hall. Genetics of the nervous system in *Drosophila* 223

No. 3. AUGUST 1982

M. G. Pitman. Transport across plant roots 481

A. Goldbeter and D. E. Koshland, Jr. Sensitivity amplification in biochemical systems 555

No. 4. NOVEMBER 1982

M. J. Whitaker and R. A. Steinhardt. Ionic regulation of egg activation 593

Roger A. Klein. Thermodynamics and membrane processes 667

Cumulative Index 1968–1982